



P-IS STIMULATION SERVICE BULLETIN

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09/25/90

P-IS (PETROCHEM - IRON STABILIZER)

TECHNICAL DATA

P-IS is an extremely efficient iron stabilizer additive for preventing the precipitation of ferric hydroxide from spent acid. P-IS reduces the ferric ion to the more soluble ferrous form, however, P-IS will not prevent precipitation of iron as ferrous sulfide when H₂S gas is present. If H₂S is present, iron stabilizers such as P-1 and P-41 or P-42 should be used.

Treating temperatures does not affect the performance of P-IS up to 400 F. Only five pounds of P-IS is needed to stabilize 1,000 ppm ferric iron in 1,000 gallons of acid. For higher iron concentrations, proportionally higher concentrations of P-IS are required. However, it is doubtful if concentrations higher than 15 pounds of P-IS per 1,000 gallons of acid is needed since this will stabilize 3,000 ppm of ferric iron. Only 4 pounds of P-IS is needed to prevent sulfur precipitation when used with a complexing agent (P-1, P-41 or P-42) in the presence of H₂S.

COMPATIBILITY

P-IS is compatible with all additives normally used in acid treatments. However, like most additives, P-IS does affect the protection times of corrosion inhibitors. This effect is small for HCL concentrations of 20% and below. However, it becomes significant in 28% HCL. Consequently, when using **P-IS in 28 % HCL**, the recommended inhibitor concentration should be doubled for well temperatures of 200 F and below. Above 200 F, standard inhibitor recommendations can be used.

MIXING

P-IS is readily soluble in both acid and water and can be added at any stage of the mixing process. Normal precautions should be taken during mixing to ensure complete dissolution of the P-IS and the uniformity of the solution.

STORAGE

P-IS is an organic reducing agent. It must not be stored with Oxidizers. P-IS is very stable, but will gradually darken when exposed to light. It should be stored in a tightly closed container.



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TECHNICAL DATA CONTINUED...

TYPICAL PHYSICAL PROPERTIES

<u>PRODUCT</u>	<u>FORM</u>	<u>SP.G.</u>	<u>PACKAGING</u>
P-IS	White Granular Crystals	1.26	SO Lb/SK.

SAFETY

Before handling or using P-IS, read the MSDS on this product. Under EPA regulations, P-IS is a non-regulated material. Avoid eye and skin contact. Moderately irritating. Avoid inhalation. Can irritate respiratory tract.